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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

American Society of Naturalists.—The 12th Annual Meeting was held in the buildings of Yale University, New Haven, Ct., Dec. 27 and 28, 1893, Professor Chittenden of Yale occupying the chair. The meeting was largely one of business, and the following matters were discussed: A movement was inaugurated whereby a closer union could be effected between the Society of Naturalists and the affiliated societies of Morphologists, of Physiologists and Anatomists. Later the societies of Morphologists and Physiologists accepted the new scheme, which therefore goes into effect, so far as they are concerned, during the present year. It is hoped that later the societies of Psychologists and of Geologists will co-operate in the same way. By the new scheme all meetings will be held at the same time and place and a single notification and a single assessment will answer for all, while membership in one of the affiliated societies will carry with it membership in the Society of Naturalists. Another matter was the appointment of a committee consisting of Professors C. S. Minot of Harvard, S. I. Smith of Yale, H. F. Osborn of Columbia, Wm. Libby, Jr. of Princeton and William H. Howell of Johns Hopkins to appeal to Congress for action which should do away with that tax upon knowledge which is embodied in the customs duties upon instruments of research. It was pointed out that these duties were not needed for the protection of the American manufacturer, for at least in one instance, American firms were ready to afford their goods at a price a little below the foreign manufacturers to those institutions which could obtain duty free prices, while for all others they added the extortionate 65 per cent. of the present tariff. The principal subject for discussion was the present status of our knowledge of the cell, the opening papers being by Prof. R. H. Chittenden of Yale, upon the subject from the physico-chemical standpoint, and by Prof. E. L. Mark from the zoological standpoint. Two illustrated evening lectures were given, one by Prof. L. A. Lee of Bowdoin upon a Comparative Study of Labrador and Patagonia, the other by Prof. Wm. Libby, Jr. upon the Physical Geography of the Hawaian Islands. At the Annual Dinner some 75 partook. The following officers were elected for the ensuing year: Pres., Prof. C. S. Minot of Boston; Vice Presidents, Prof. S. I. Smith of New Haven, Mr. Wm. H. Dall of Washington, Prof. Wm. Libby, Jr. of Princeton; Secretary, Prof. W. A. Setchell of New

Haven; Treas., E. G. Gardiner of Boston; Committee at large, Prof. H. F. Osborn of Columbia, Dr. C. W. Stiles of Washington.

SOCIETY OF MORPHOLOGISTS.—The annual meeting of this society was held at New Haven Dec. 28 and 29, 1893. In the absence of Prof. C. O. Whitman, Prof. E. B. Wilson occupied the chair. The following officers were elected for the ensuing year: Pres., Prof. C. O. Whitman of Chicago; Vice Pres., Prof. W. B. Scott of Princeton; Secretary-Treasurer, Dr. G. H. Parker of Cambridge; Executive Committee, Dr. E. A. Andrews of Baltimore and Prof. F. H. Herrick of Cleveland. Professors E. L. Mark of Cambridge and T. H. Morgan of Bryn Mawr were appointed as a committee to co-operate with a similar committee for the Society of Naturalists in the endeavor to secure the placing of scientific instruments upon the free list. The following papers were read: Bashford Dean, the significance of Kupffer's vesicle. H. H. Wilder, on the Phylogenesis of the larynx. C. W. Stiles, the anatomy of *Fasciola magna*, and a comparison with other forms (*F. hepatica*, *F. gigantea*, and *F. jacksoni*). F. H. Herrick, the structure and functions of certain organs occurring in the appendages of the Lobster. Arthur Willey, on some points in the development of *Molgula manhattensis*. C. B. Davenport, on Regeneration of Hydroids. J. P. McMurrich, some points in the development of the Isopod Crustacea. C. S. Minot, apparatus for trimming paraffin blocks. C. S. Minot, a comparison of larval and fetal types of development. C. S. Minot, on Gonotomes. C. A. Kofoid, some laws of cleavage as exemplified by *Limax* and other Invertebrates. H. E. Crampton, reversed cleavage in a sinistral gasteropod. W. A. Locy, the derivation of the Pineal Eye from accessory optic vesicles. Charles Hill, Epiphysis of Teleosts and *Amia*. G. H. Parker, the structure of the Rhabdome in *Astacus*. G. H. Parker, the optic ganglion in the Crustacea. W. B. Scott, on some Miocene Mammals. O. S. Strong, a new modification of the Golgi-Cajal method. Miss H. B. Merrill, preliminary note on the eye of the leech. Miss S. F. Langdon, the sense organs of *Lumbricus*. Dr. E. B. Wilson, a demonstrative object for the study of Karyokinesis.

The following demonstrations were given: C. W. Stiles, exhibition of specimens of *Distoma westermanni*, *Stilesia globipunctata*, *Stilesia centripunctata*, *Dracunculus medinensis*, Spurious parasites. J. P. McMurrich, Ganglion cells and larva of an ectoparasitic Trematode. O. S. Strong, nerves stained by the Golgi methods. Chas. Hill, Epiphysis of *Salmo*. F. E. Langdon, Sense organs of *Lumbricus*.

THE SIXTH ANNUAL MEETING of the American Physiological Society was held at New Haven, Conn., December 28th and 29th, 1893. The following papers were read: G. D. Goodyle, Concerning the Corrosive Action of Root Hairs. J. W. Warren, on the Zymogen of the Saliva. Wm. A. Setchell, Proteolytic Ferment of *Drosera*. C. F. Hodge, daily life of a Protozoan, *Vorticella gracilis*. C. S. Minot, on Growth. W. T. Porter, on Growth of Children. H. G. Beyer, Normal Growth and Physical development of the Human Body. J. H. Pillsbury, Color Sense. C. F. Hodge, a Comparative Study of the Fovea Centralis. E. W. Scripture, some Work on Statistics. Isaac Ott, the Location of the Cerebral Motor Center of the Bladder. F. S. Lee, the Sense of Equilibrium in Fishes. J. W. Warren, a Finger Jerk. H. P. Bowditch, on Muscular Rigor. H. P. Bowditch, on the Effect of varying Rates of Interruption in Nerve. W. H. Howell, the relations of Calcium Salts to the irritability of the Muscle and Nerve. G. Lusk, the Influence of ingested Sugars in Phlorizin Diabetes. P. A. Levene, Preliminary Communication; the Blood in Phloridzin Diabetes. H. E. Smith, Acidity of the Urine. W. Gilman Thompson, Notes on the Physiological Effect of Ozonizing Agents.

The following demonstrations were given: S. J. Meltzer, Demonstration of a Pleura canula. W. G. Thompson, Demonstration of inexpensive Models for teaching purposes. A. P. Brubaker, Demonstration and Determination of the Radius of the Corneal Curvature with the Ophthalmometer. W. P. Lombard, Model, showing Effect of Rotation of Ribs.

THE GEOLOGICAL SOCIETY OF AMERICA met in Boston, Dec. 27th and 29th, 1893. The following is a list of papers read before it:

Sir J. William Dawson, some recent discussions in geology (Presidential address). George M. Dawson, Geological notes on some of the coasts and islands of Behring Sea and its vicinity. Frank H. Knowlton, Fossil flora of Alaska. Sir J. William Dawson, New discoveries of Carboniferous Batrachians. William H. Dall and Joseph Stanley-Brown, Cenozoic geology along the Apalachicola river. Alfred C. Lane, Geological activity of the earth's originally absorbed gases. William B. Clark, Certain climatic features of Maryland. H. S. Williams, Dual nomenclature in geologic classification. George Huntington Williams, Johann David Schoepff, and his contributions to North American Geology. Bailey Willis, Relations of synclines of deposition to ancient shorelines. Alexander Agassiz, an

account of an expedition to the Bahamas. William B. Scott, Lacustrine Tertiary formation of the west. C. Willard Hayes, Geology of the Coosa valley in Georgia and Alabama. William H. Hobbs, Geological structure of the Housatonic valley lying east of Mt. Washington; read by J. E. Wolff. J. E. Wolff, the Hibernia fold, New Jersey. N. S. Shaler, Tertiary dislocation of the Atlantic coast of the United States. N. S. Shaler, relations of mountains to continents. N. S. Shaler, Phenomena of beach and dune sands. W. M. Davis and L. S. Griswold, Eastern boundary of the Connecticut Triassic. W. M. Davis, Geographical work for state geological surveys. W. M. Davis, Facetted pebbles on Cape Cod. Charles D. Walcott, Paleozoic intra-formational conglomerates. M. R. Campbell, Paleozoic overlaps in Montgomery and Pulaski counties, Virginia. Alpheus Hyatt, the Trias and Jura of the Western States. J. S. Diller, the Shasta-Chico series of the Pacific coast. T. W. Stanton, the Cretaceous faunas of the Shasta-Chico series. Robert T. Hill, Geology of Indian Territory and Texas adjacent to Red river. S. F. Emmons and G. P. Merrill, Notes on the geology of Lower California. William B. Clark, Origin and classification of the greensands of New Jersey. Charles R. Keyes, Crustal adjustment in the upper Mississippi basin. William H. Niles, a geological study of Lake Mohonk and Lake Minnewaska, N. Y. N. H. Darton, Geologic relations in the belt from Green Pond, New Jersey, to Skunnemunk Mountain, New York. Robert H. Richards, a prismatic stadia telescope. George Huntington Williams, Ancient volcanic rocks along the eastern border of North America. C. H. Hitchcock, Ancient eruptive rocks in the White Mountains. G. K. Gilbert, the chemical equivalence of crystalline and sedimentary rocks. William H. Hobbs, Volcanite, an anorthoclase augite rock chemically like the dacites read by G. H. Williams. H. P. H. Brumell, Further notes on the occurrence of labertite in New Brunswick, Canada. Homer T. Fuller, Alterations of silicates in gneiss at Worcester, Mass. Robert Bell, Pre-paleozoic decay of crystalline rocks north of Lake Huron. James F. Kemp, Gabbros on the western shore of Lake Champlain. Robert W. Ells, Notes on the occurrence of mica in the Laurentian of the Ottawa district. Whitman Cross, Intrusive sandstone dikes in granite. James P. Smith, Age of the auriferous slates in the Sierra Nevada. William O. Crosby, Origin of the coarsely crystalline vein granites or pegmatites. William O. Crosby, a classification of economic geological deposits, based upon origin and original structure. R. S. Tarr, Lake Cayuga a rock basin. James E. Todd, Pliocene problems in

Missouri. G. Frederick Wright, Remarks upon a supposed glaciated stone axe from Indiana. T. C. Chamberlin, Pseudo-cols. T. C. Chamberlin and Frank Leverett, Certain features of the past drainage systems of the upper Ohio basin. G. Frederick Wright, Glacial history of western Pennsylvania. F. B. Taylor, the ancient strait at Nipissing. Edward H. Williams, Extramoraine drift between the Delaware and the Schuylkill. Professor Dr. Alfred Teuttsch, Königsberg, Prussia, Interglacial series of Germany. Warren Upham, the Madison type of drumlins. Warren Upham, Diversity of the glacial drift along its boundary. E. O. Hovey, Notes on the microscopic structure of siliceous oölite.

INDIANA ACADEMY OF SCIENCE.—The Ninth Annual Meeting was held at Indianapolis, December 28 and 29, 1893, when the following papers relating to Natural History were read and discussed:

An Alphabetical and Synonymical Catalogue of the Acrididæ of the United States, W. S. Blatchley. On the Hibernation of Turtles, A. W. Butler. Some Notes on a Variety of *Solanum dulcamara*, R. Wes. McBride. Work of the Botanical Division of the Natural History Survey of Minnesota, D. T. MacDougal. Indiana Fishes, C. H. Eigenmann. The Fishes of Wabash County, A. B. Ulrey. Review of Botanical Work in Indiana with Bibliography, L. M. Underwood. Notes on an Imbedding Material, John S. Wright. Recent Notes on Indiana Birds, A. W. Butler. The Distribution of Indiana Birds, A. W. Butler. On the Occurrence of the Rarest of the Warblers (*Dendroica kirtlandii*) in Indiana, A. B. Ulrey. Histology of the Pontederiaceæ, E. W. Olive. Growth in Length and Thickness of the Petiole of *Richardia*, Katherine E. Golden. The Geographical and Hypsometrical Distribution of North American Viviparidæ, R. Ellsworth Call. The Effect of Light on the Germinating Spores of Marine Algæ, Melvin A. Brannon. Notes on Saprolegnia, George L. Roberts. Contributions to the Life-History of *Notothylas*, D. M. Mottier. Some South American Characinidæ, with Six New Species, A. B. Ulrey. Should the Study of Natural Science in the Lower Classes of the Public Schools be Encouraged, W. W. Norman. The Detection of Strychnine in an Exhumed Human Body, W. A. Noyes. Absorption of Poisons by Animal Tissue After Death, P. S. Baker. Induration of Certain Tertiary Rocks in North-Eastern Arkansas, R. Ellsworth Call. The White Clays of Southern Indiana, A. W. Butler. The Effect of Environment on the Mass of Local Species, C. H. Eigenmann. The Ash of Trees, Mason B. Thomas. Poisonous Influence

of *Cypripedium spectabile*, D. T. MacDougal. Notes on the Biological Survey, Mason B. Thomas. Notes on Sectioning Woody Tissues, John S. Wright. The Stomates of *Cycas*, Mason B. Thomas. Symbiosis in *Isopyrum biternatum*, D. T. MacDougal. Our Present Knowledge of the Distribution of Pteridophytes of Indiana, Lucien M. Underwood. Concerning the Effect of Glycerine on Plants, John S. Wright. The Adventitious Plants of Fayette County, Robert Hessler. Bibliography of Indiana Ornithology, A. W. Butler. Bibliography of the Batrachians and Reptiles of Indiana, O. P. Hay. Bibliography of Indiana Mammals, A. W. Butler and B. W. Everman.

The President's address by Dr. J. C. Arthur discussed "The special senses of plants."

NATURAL SCIENCE ASSOCIATION OF STATEN ISLAND, Nov. 11th, 1893. Mr. William T. Davis exhibited specimens of *Anodonta fluviatilis* Lea, and read the following memorandum:

Rediscovery of Anodonta fluviatilis on Staten Island.—During the past summer *Anodonta fluviatilis* was found in the Bull's Head pond. Only empty shells were discovered, chiefly such as had been opened and their contents eaten by musk rats. Mr. Sanderson Smith has informed me that, as far as he remembers, the specimens admitted into the list of fresh and salt water shells of the Island, originally published in the Annals of the New York Lyceum of Natural History, in May, 1865, and subsequently republished with a few changes, in our Proceedings, as Extra No. 5, March, 1887, came from the ponds near Clifton. None have been reported in many years, so the present specimens from Bull's Head are worthy of being placed on record.

Mr. Arthur Hollick exhibited specimens of drift bowlders, containing fossils, from Prince's Bay, and read the following memorandum:

A Recent find of Drift fossils at Prince's Bay.—On the 29th of last month, while examining the Drift rocks at the base of the Prince's Bay bluff, I found four bowlders containing fossils, representing four different geological horizons, viz.: Hudson shale, with *Orthis*, probably *O. testudinaria* Dal; Helderberg limestone, with *Strophodonta beekii* Hall, *S. varistriata* Conr. *Strophomena rhomboidalis* Wahl. and *Orthis oblata* Hall; Oriskany sandstone, *Spirifera arrecta* Hall; Schoharie grit, with *Atrypa reticularis* L. and fine specimens of some Bryozoon not determined. By far the larger part of the bowlders was left behind and will receive further attention on some future occasion. These do not add any new species to our already published lists of Drift

fossils, except in the case of the provisionally determined *Strophodonta varistriata*, but the discovery, in one day, in a very limited area, of four fossiliferous bowlders, representing as many different geological horizons, is perhaps worthy of note.

THE BIOLOGICAL SOCIETY OF WASHINGTON, Jan. 13, 1894.—Communications: Dr. Theo. Gill, the Segregation of the Osteophysarial Fishes as Fresh water Forms. Mr. Robt. T. Hill, a new Fauna from the Cretaceous Formations of Texas. Dr. C. W. Stiles, the Teaching of Biology in Colleges. Mr. J. N. Rose, a Botanical trip to Northwestern Wyoming.

SCIENTIFIC NEWS.

The death is announced at Paris of the biologist Dr. Chabry, known for his work in experimental teratology.

M. Paul Fischer, the conchologist of the Museum d'Histoire Naturelle, died Nov. 29, 1893. He contributed largely to the literature of science, his *Histoire des Mollusques du Mexique* being, perhaps, the best known of his works.

Dionys Stur, late director of the K. K. geologische Reichsanstalt of Austria, died at Vienna, Oct. 9th, 1893.

The loss to zoology by the recent death of Prof. Milnes Marshall, of Owens College, Manchester, England, is not easily estimated. There is a striking similarity in the manner of his death and that of his instructor, the lamented. Marshall was climbing one of the peaks of Scafell, in Cumberland, when his foot slipped, and he fell over a precipice. His death occurred June 31, 1893.

A prize of 1,800 francs is offered by the Italian Geological Society for the best memoir on the present knowledge of the paleozoic and mesozoic formations in Italy. This paper will follow one by D'Archiac entitled "History of the Progress of Geology", and must be presented before the end of March, 1896.

Dr. Harrison Allen has been appointed director of the Wistar Institute of Anatomy of the University of Pennsylvania.